

# COMPUTED TOMOGRAPHY DOSE INDEXING PHANTOM SELECTION FOR DOSE REPORTING

## Abstract

A computed tomography assembly is providing including an x-ray gantry assembly, an x-ray source projecting a beam of x-rays, a detector assembly positioned opposite the x-ray source and receiving the beam of x-rays, and a control mechanism in communication with the x-ray source and the detector assembly. The control mechanism includes logic adapted to: execute at least one scout scan of the object to produce a first scout scan image; generate an elliptical patient model based on the first scout scan image; match the elliptical patient model to a phantom diameter approximation; generate a dose report based on the phantom diameter approximation; and display said dose report on a display in communication with the control mechanism.